

James C. SOLINSKY

Serial No. 09/658,275

Response to office action dated October 6, 2003

Amendments to the Drawings:

The attached sheets of drawings includes changes to Figures 1, 2, 3, 7, 8 and 9. These sheets, which include Figures 1, 2, 3, 7, 8 and 9 replace the original sheets including these figures. Captions in Figures 1, 2, 3, 7, 8 and 9 have been changed. In addition, in Figure 3, an arrow has been added to the line connecting elements 14 and 15.

Attachment: Replacement Sheets

Annotated Sheets Showing Changes

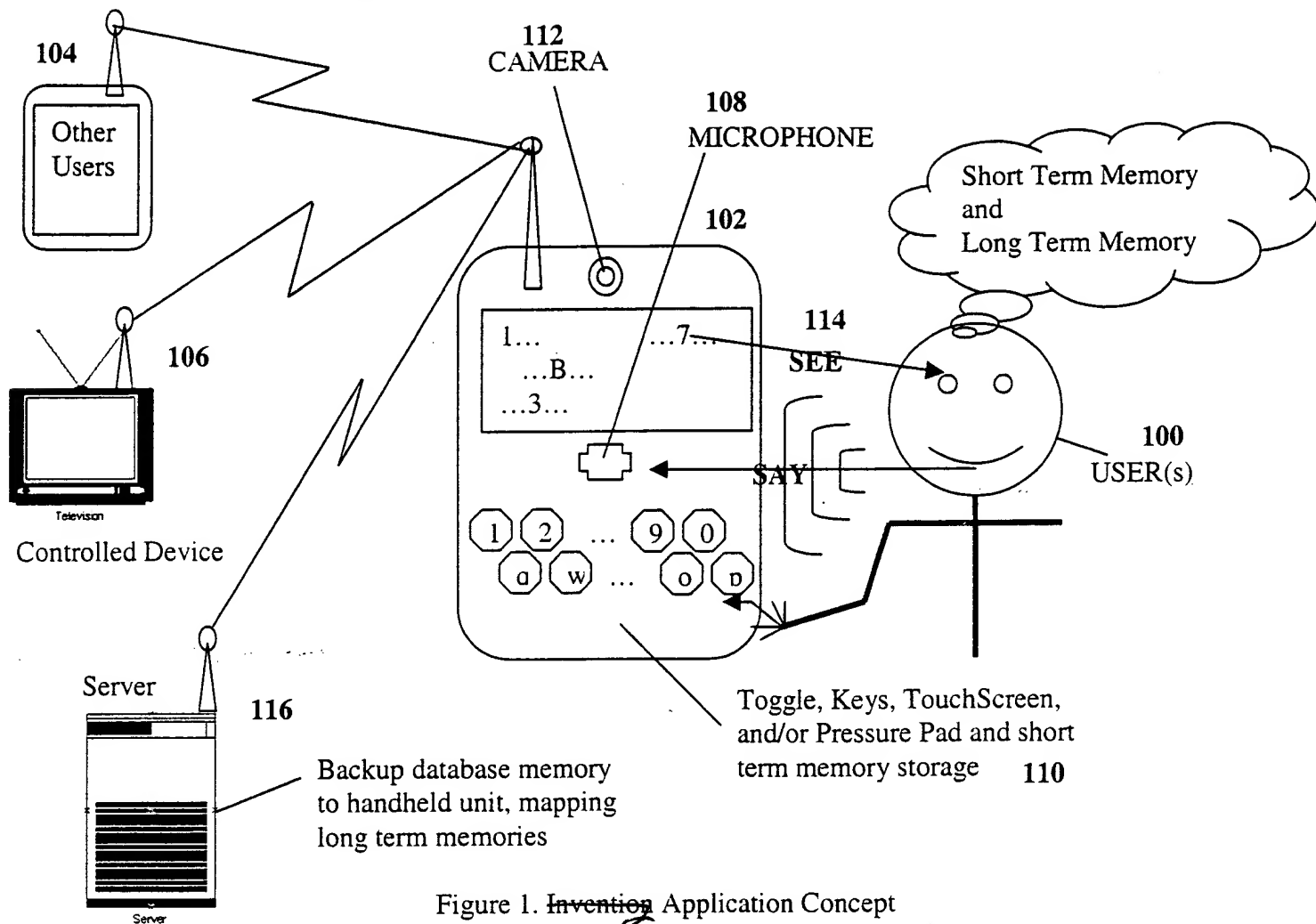


Figure 1. Invention Application Concept

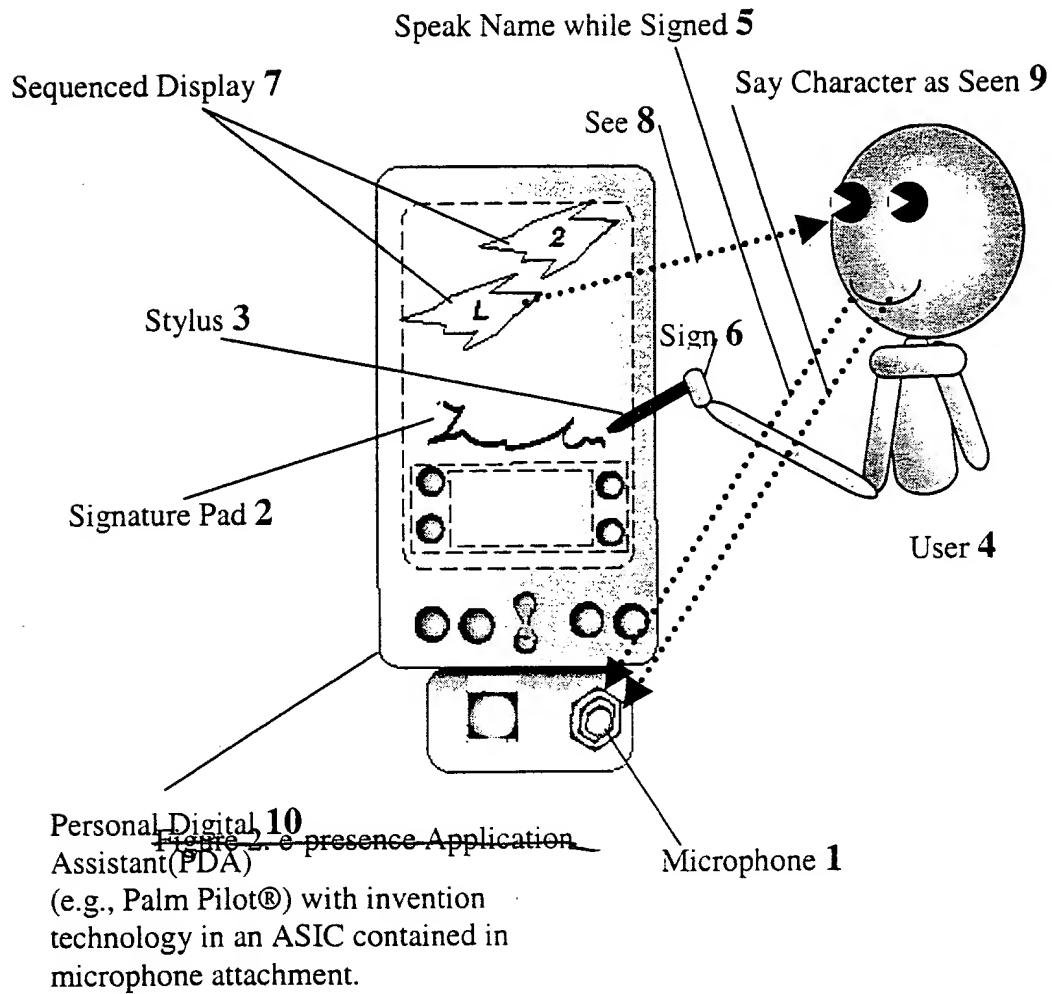
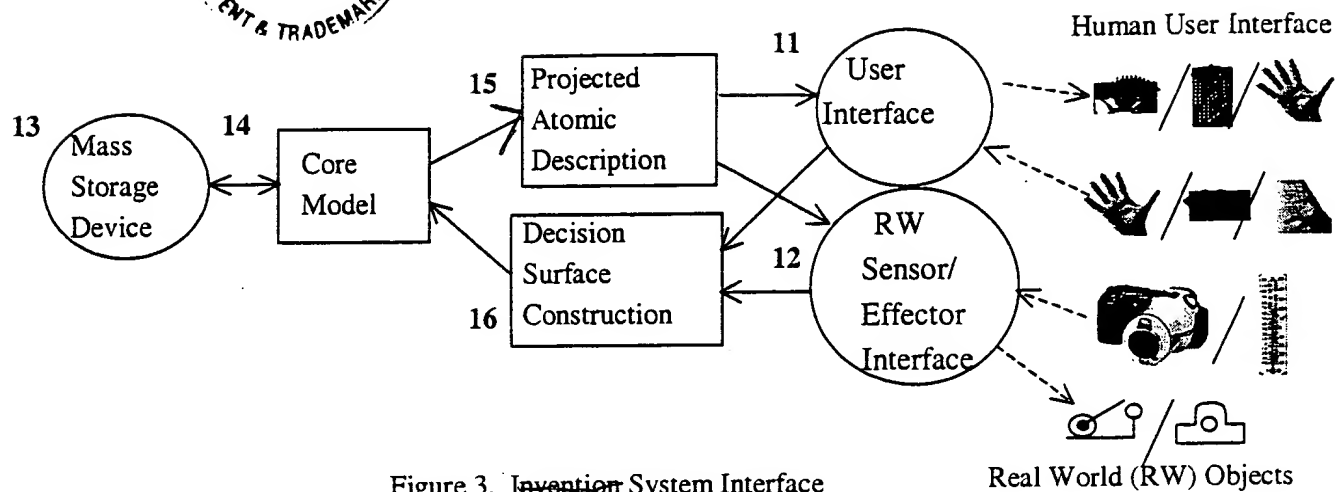


Figure 2. e-presence Application

UIPE
APR 06 2004
PATENT & TRADEMARK OFFICE



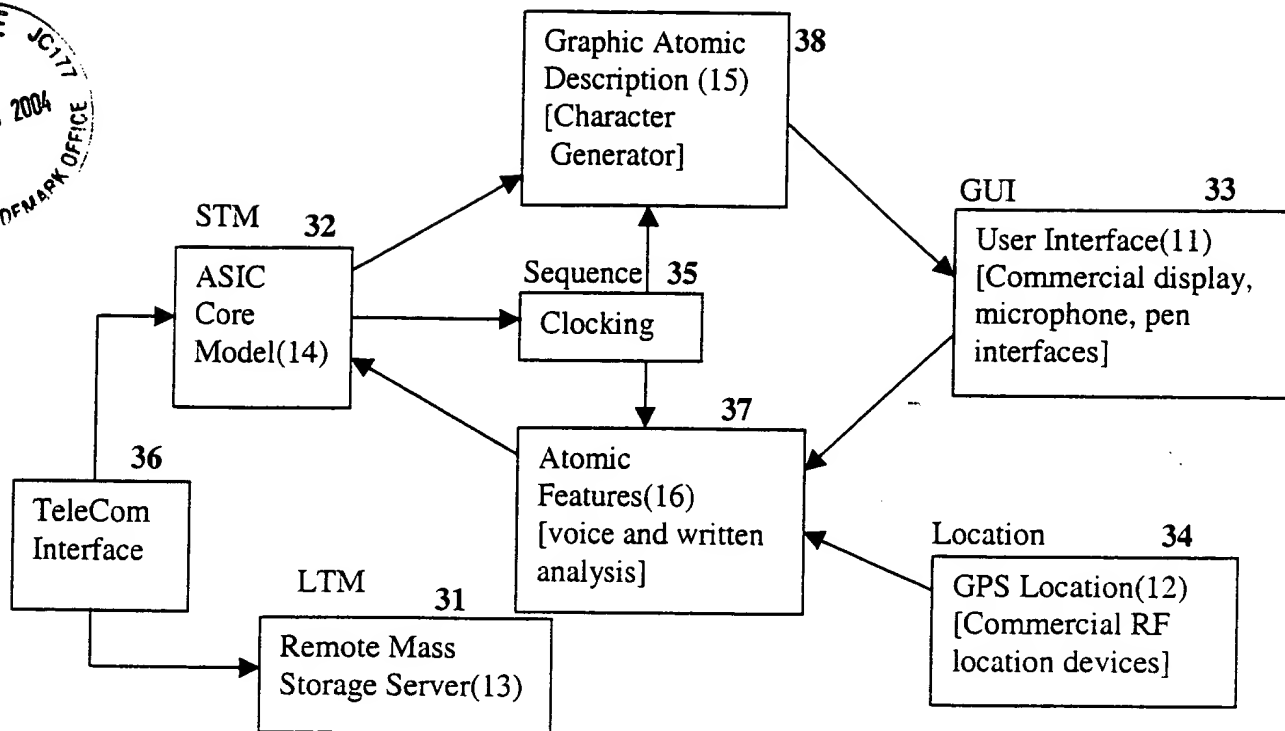


Figure 7. User Authentication ID Application with the invention technology 2



42

STM

Synthesized OD Model Construction

- > OD as singular, linked points in N-D space with axis fidelity coupled to projected densities
- > subspace representations of N-D expression (with N, N'; M, M' mapping)
- > atomic attributes as subspace projections with HOS fidelity driven by OD
- > correlated, non-orthogonal fractal axis cells with Eq. (13) - (17) projections including concurrency utilization
- > NN to capture N-D space cell correlation
- > NN, TC, and generalized decision modules for class filtering
- > class filtering using projections with asymmetric HOS, Hermite moment density, and feature evaluation
- > TC use of random seed, local normalization, addresses linked to worldline, and expansion to N = infinity

OD Model Use and Dynamics

- > liquid/gas model on $\rho(\tilde{x}_m)$ density representation dynamics
- > synthesis feedback from MV features on 2-D OD subspace projections
- > chunking of OD elements with user viewpoint to minimize entropy H
- > SD metric and balloon matrix \tilde{D} metric as search strategy feedback in min(H) OD synthesis
- > AC as a dynamic metric in using d, τ and crn to minimize feedback cycle time
- > AC for OD transformation with equivocation on C_L latency cost; construction of CC limits on information (known) flow and BW limits on data (unknown) flow; and fidelity represented by CC, CF and Re.

39

User and/or RW inputs
 (incorporate evolving formats)

40

Respond to input Stimuli
 (emotional sensing)

LTM

44

- RDB Storage
- > Linking of STM synthesis to LTM OD representation in tuple using predicate calculus structure of (noun/verb/object/label)
 - > \tilde{P}_m, \tilde{L}_m axis definition and TC/NN class decision surface storage with adaptive threshold d as tuple fields
 - > Subspace N' mapping from N-D OD in STM synthesis
 - > NN taxonomy to OD N-D space for common knowledge formation via mutual user interaction
 - > dynamic control of AC uncertainty in LTM building across user group with min/max d range

41

Capture user/RW input exemplars
 (input atomic attribute level)

43

Store Modeled Synthesis
 (use of Internet, LAN, and remote server methods)

45

Retrieve and Use Modeled Synthesis
 (use of Internet, LAN, and remote server methods)

47

User and/or RW
 outputs

46

Generate output response - Request new input
 (forced choice confusion for user knowledge extraction)

Figure 8. Invention Method Flow Chart

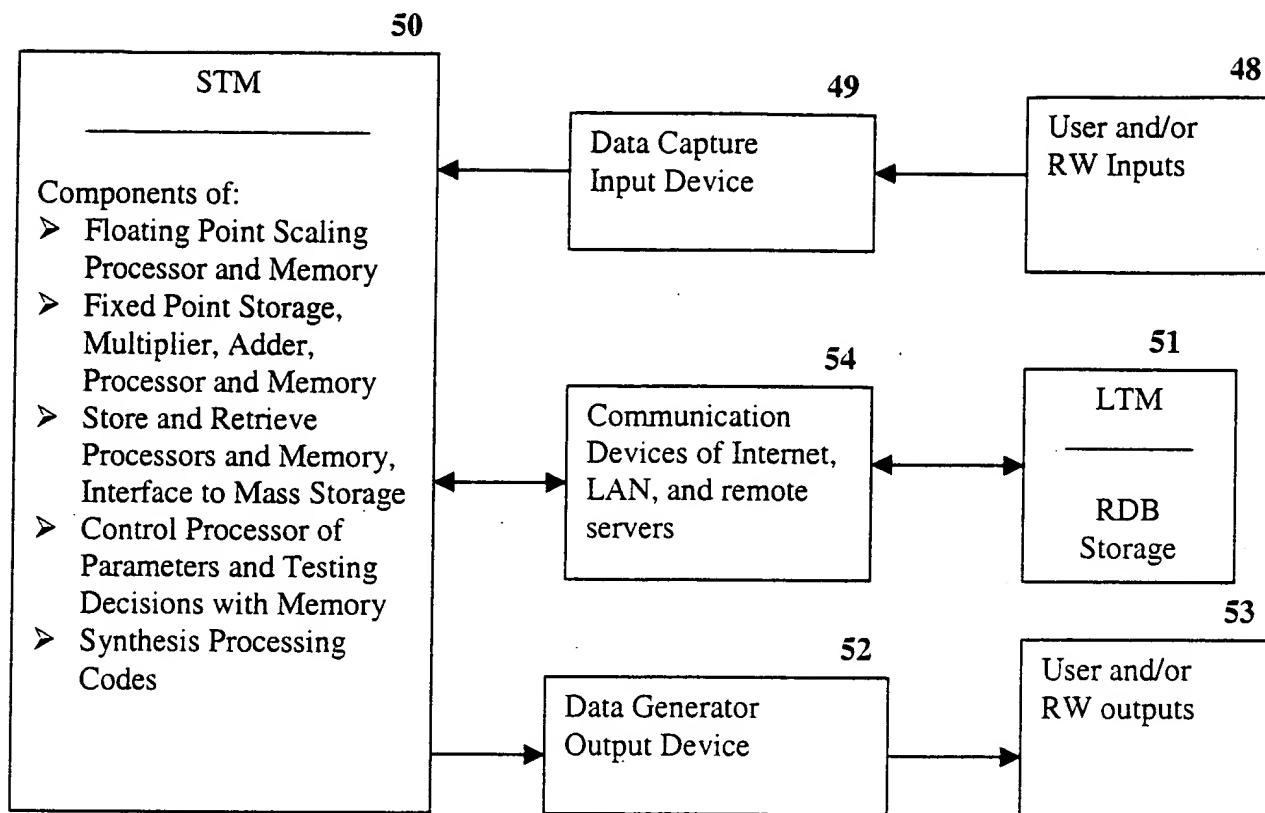


Figure 9. Invention System Generic Block Diagram



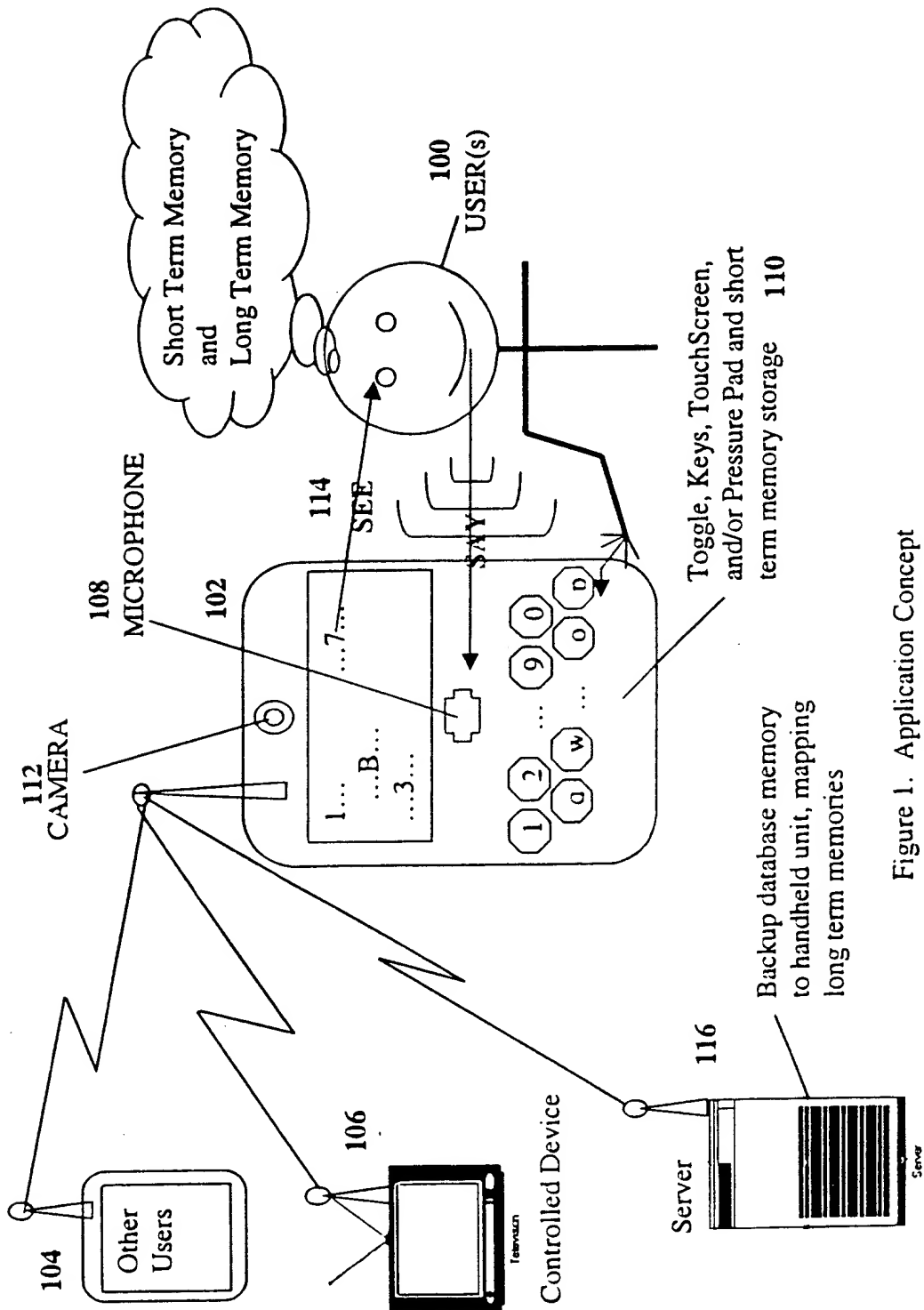


Figure 1. Application Concept

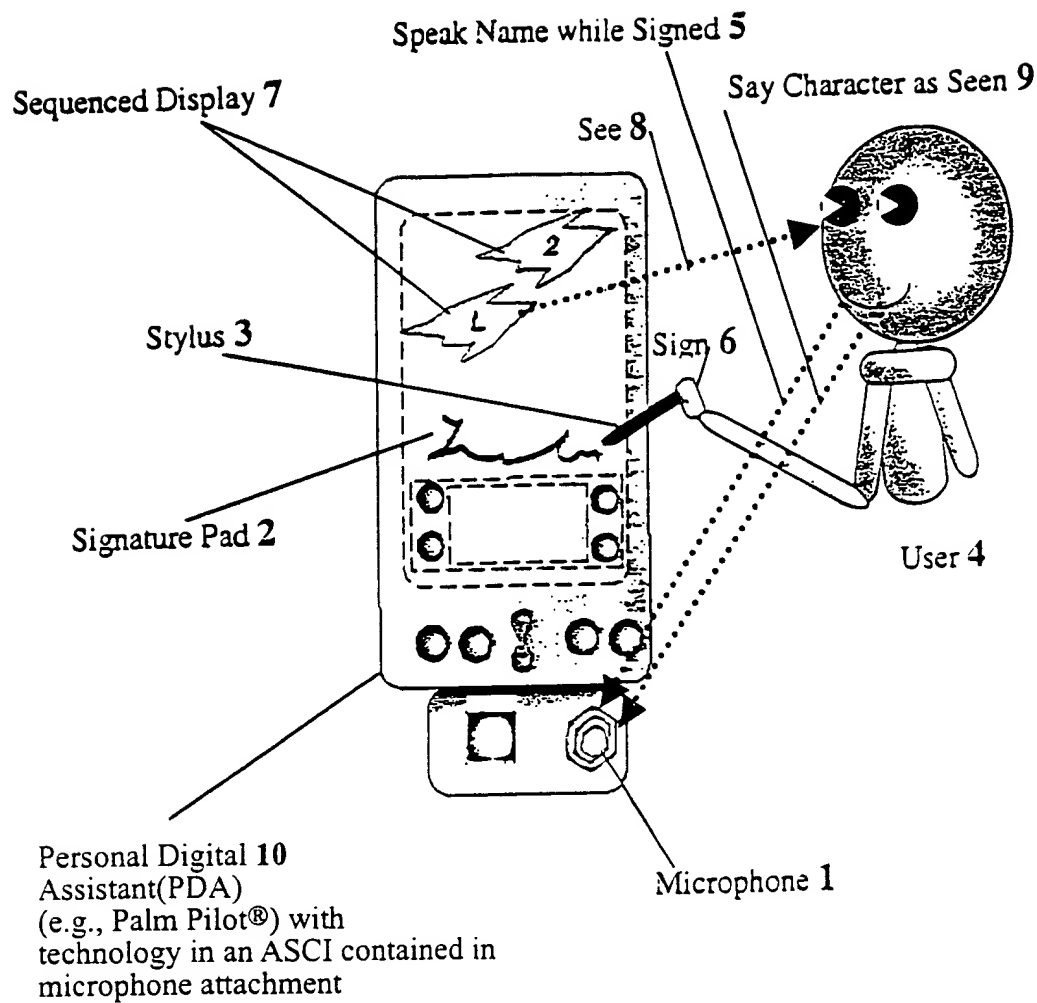


Figure 2 e-presence Application

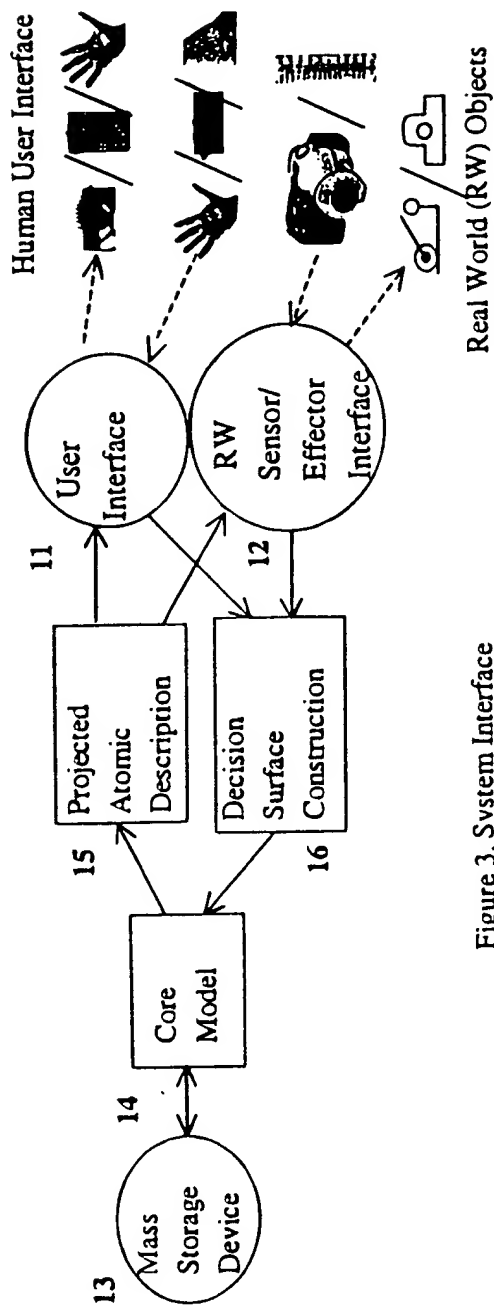


Figure 3. System Interface

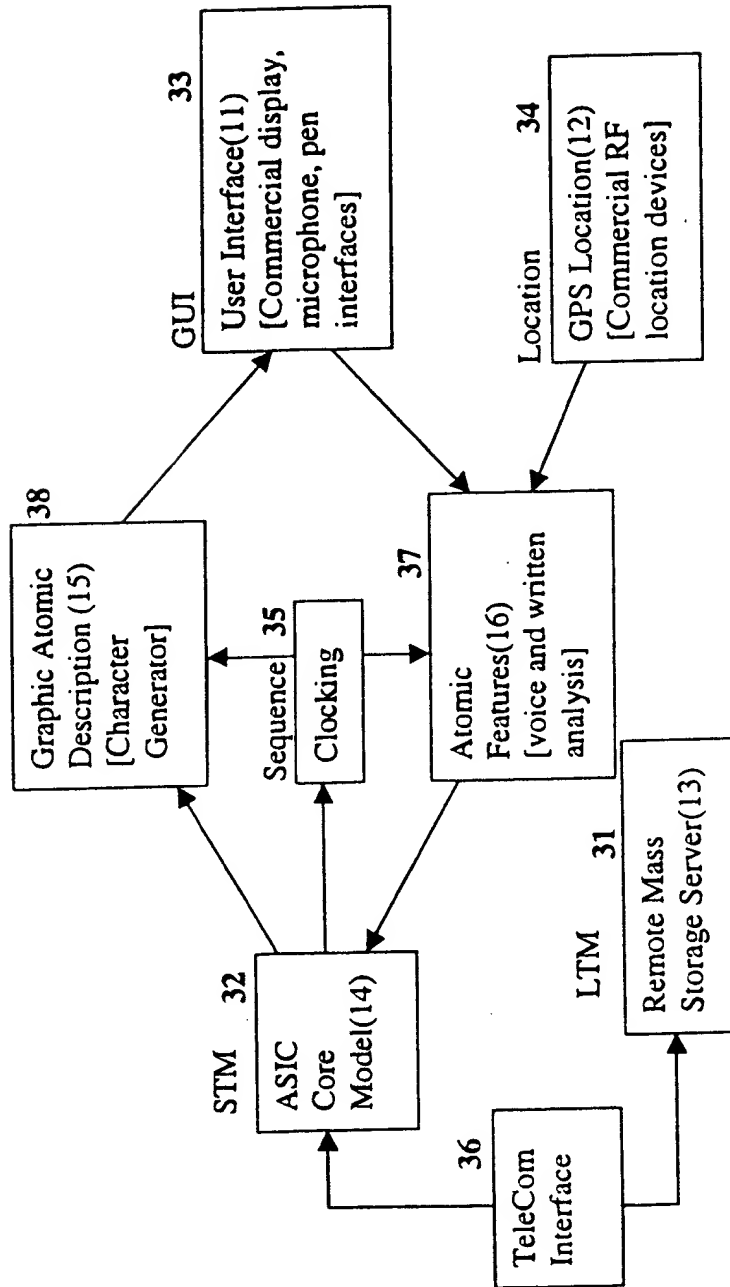


Figure 7. User Authentication ID Application

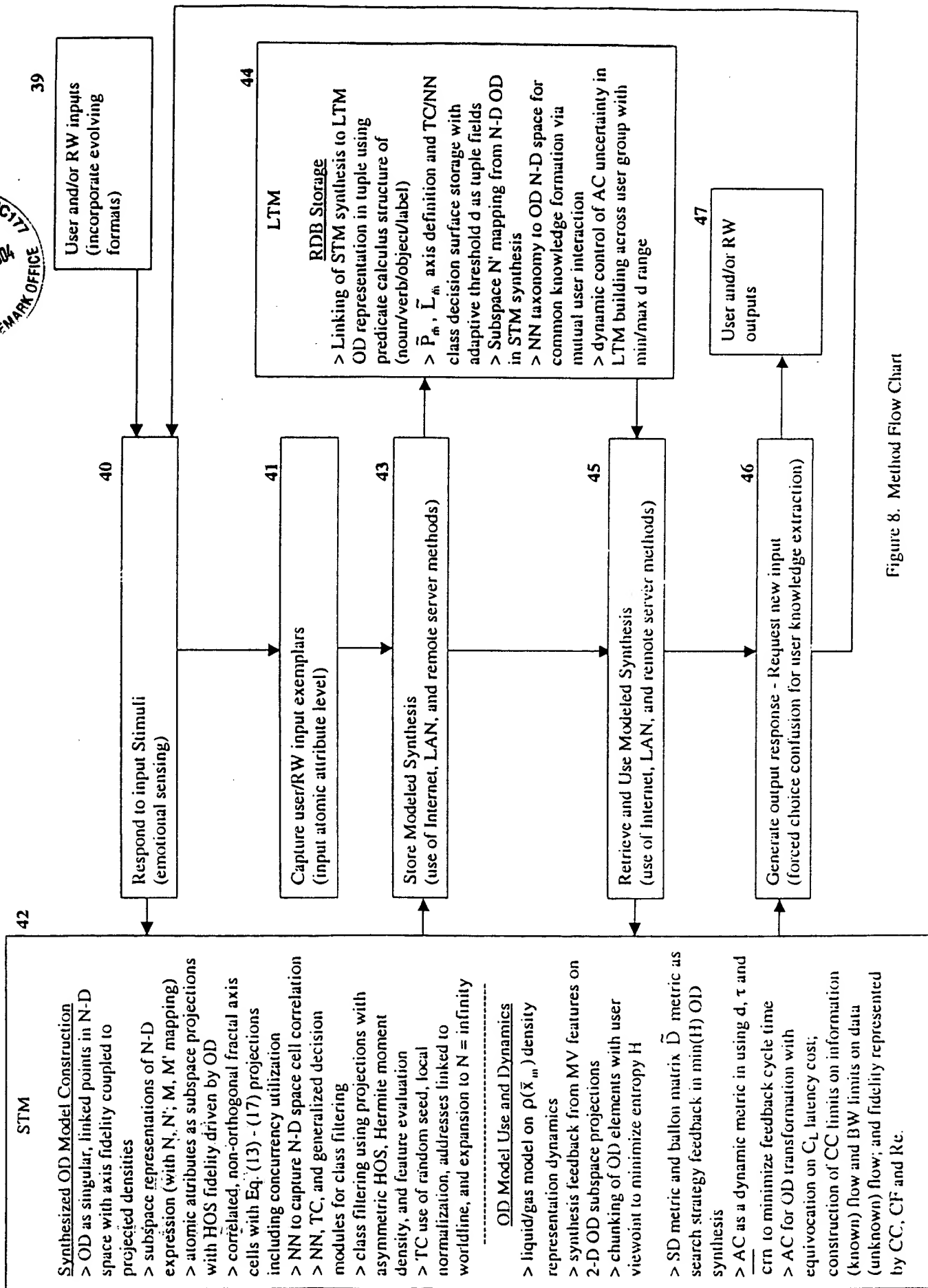


Figure 8. Method Flow Chart

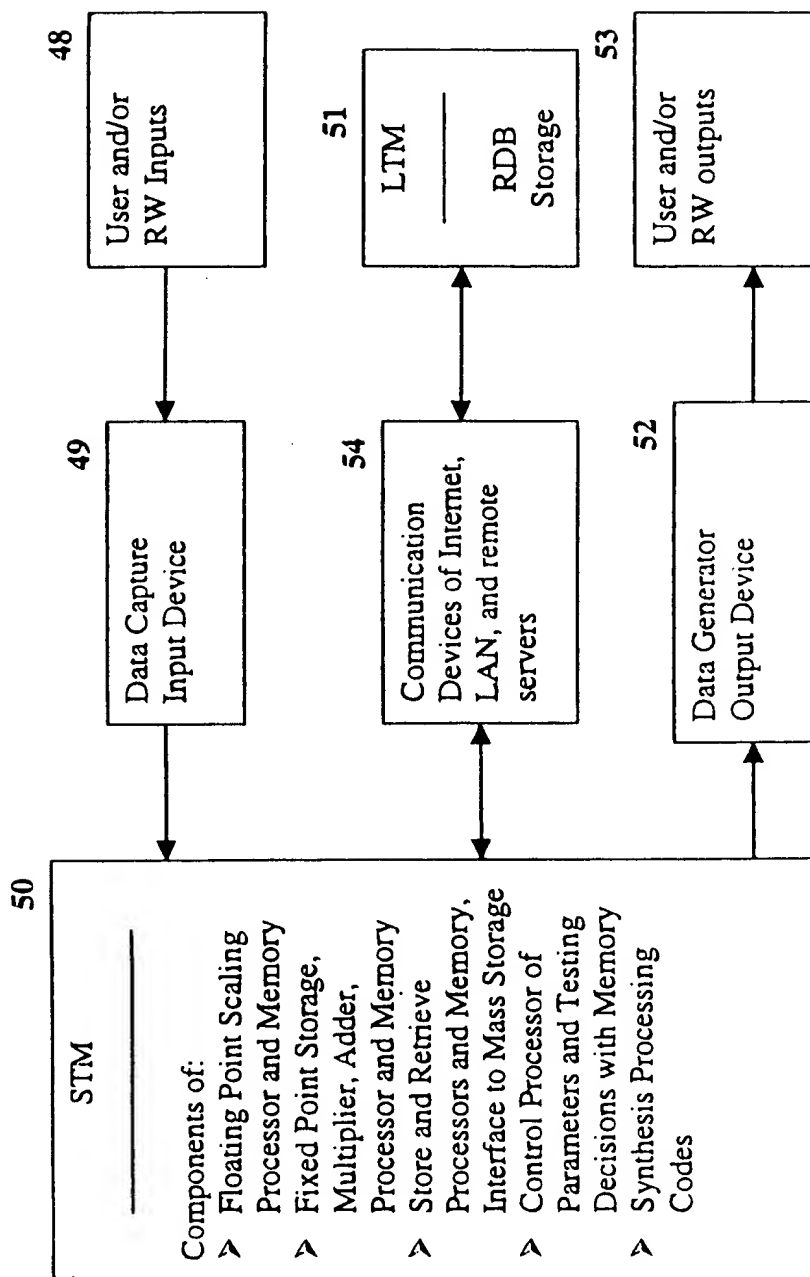
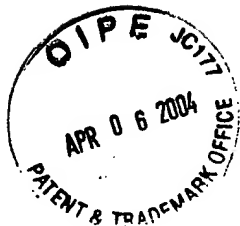


Figure 9. System Generic Block Diagram